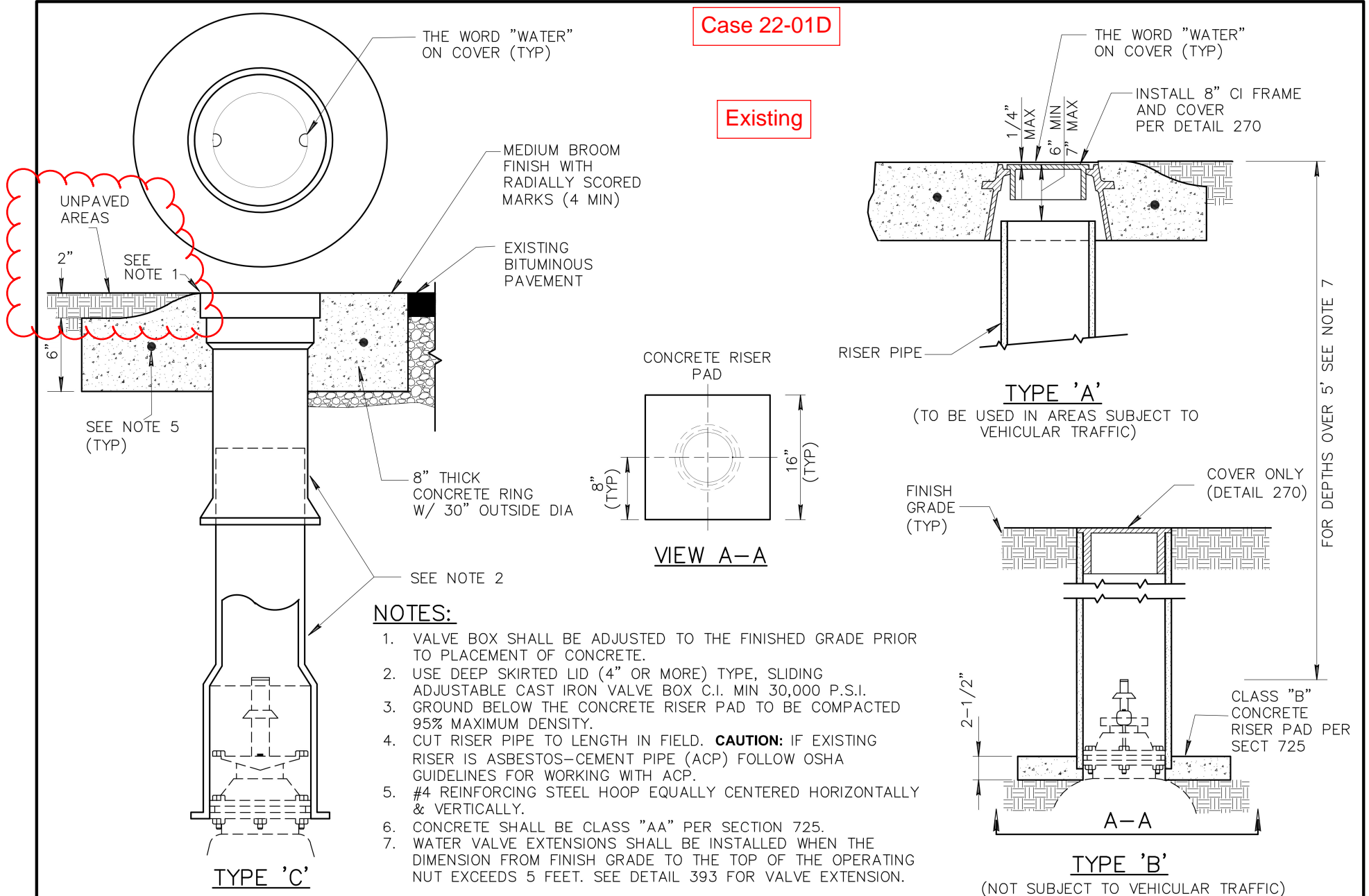


Case 22-01D

Existing



DETAIL NO.

391-1



STANDARD DETAIL
ENGLISH

VALVE BOX INSTALLATION
AND GRADE ADJUSTMENT

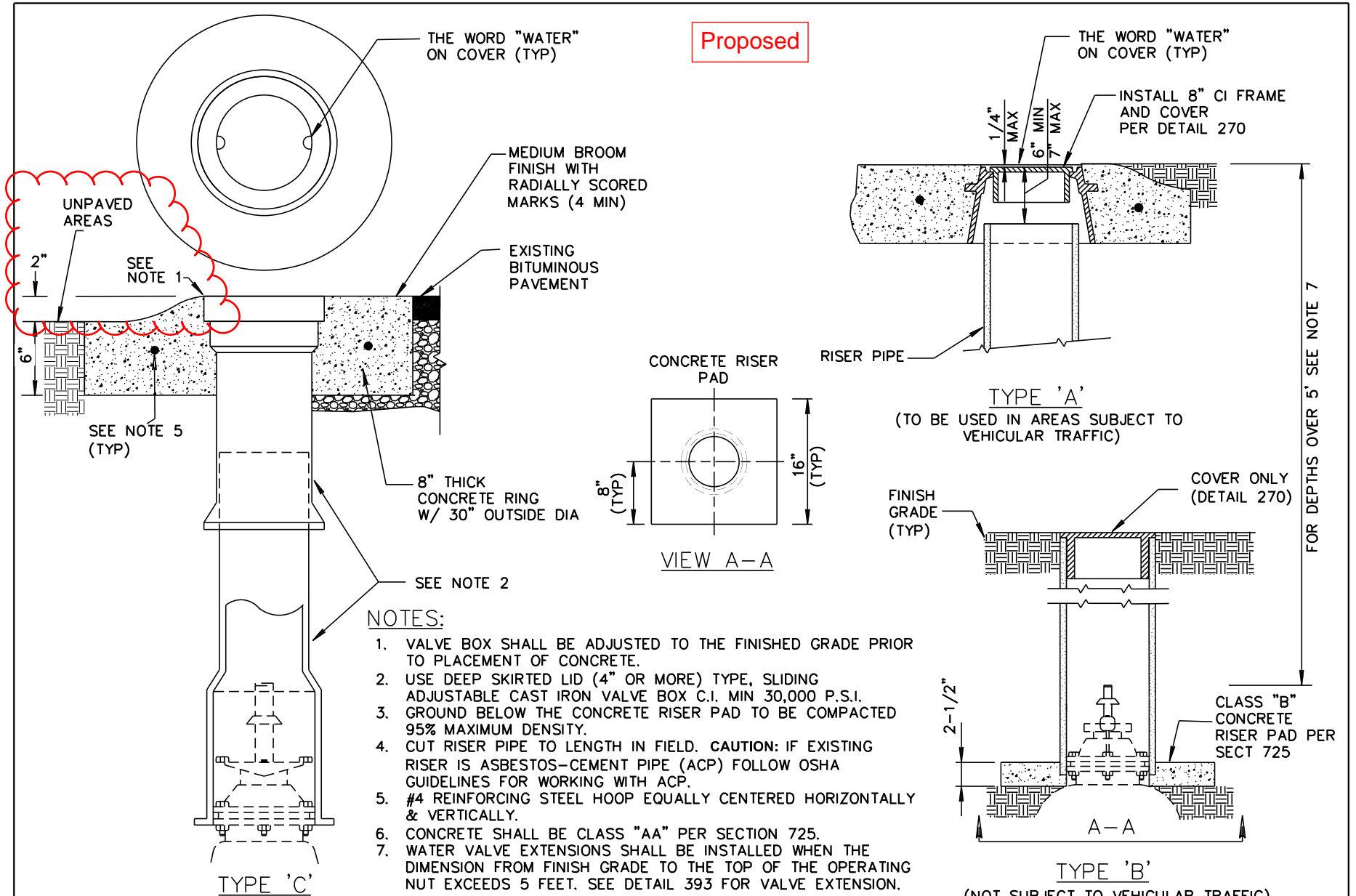
REVISED

01-01-2018

DETAIL NO.

391-1

Proposed



DETAIL NO.

391-1



STANDARD DETAIL
ENGLISH

VALVE BOX INSTALLATION
AND GRADE ADJUSTMENT

REVISED

01-01-2022

DETAIL NO.

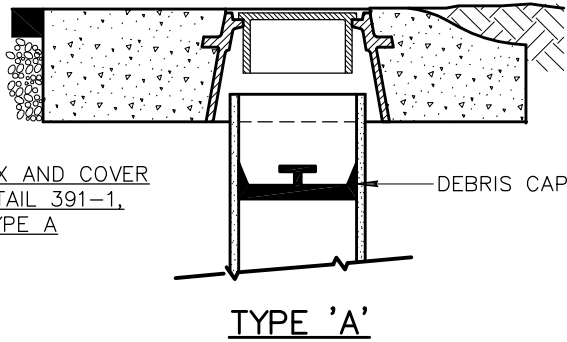
391-1

Existing

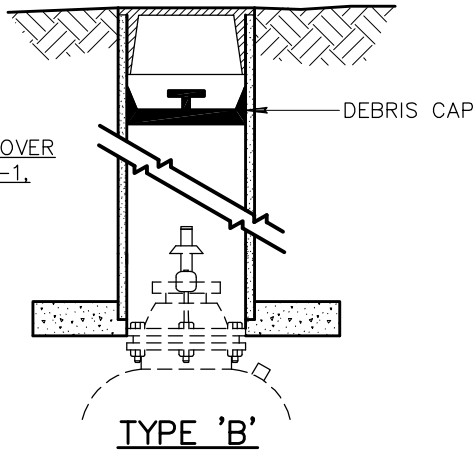
NOTES:

1. THE DEBRIS CAP SHALL BE DESIGNED AND INSTALLED TO PREVENT DEBRIS SUCH AS DIRT, DUST SAND, ETC., FROM PASSING AROUND THE CAP AND DOWN INTO THE VALVE HOUSING. THE CAP SHALL BE HELD IN PLACE BY A MECHANISM WHICH WILL NOT DAMAGE THE VALVE HOUSING.
2. THE CAP SHALL BE MANUFACTURED OF CORROSIVE RESISTANT MATERIALS.
3. DEBRIS CAP SHALL BE INSTALLED AS CLOSE UNDER THE CAST IRON COVER WITHOUT INTERFERING WITH COVER OPERATION.
4. THE CAP SHALL BE CAPABLE OF SECURELY HOLDING A STANDARD LOCATING COIL, "SCOTCH MARK" 4 DISK MARKER BY 3M OR EQUAL.
5. THE CAP SHALL BE CONSTRUCTED TO ALLOW THE DEVICE TO BE SECURED BY A LOCK. THE LOCK (PAD, BARREL, ETC.) SHALL BE SUPPLIED BY THE AGENCY.
6. THE CAP SHALL BE INSTALLED IN ALL VALVE HOUSINGS AS REQUIRED BY THE CONTRACT DOCUMENTS OR BY THE AGENCY'S POLICIES.

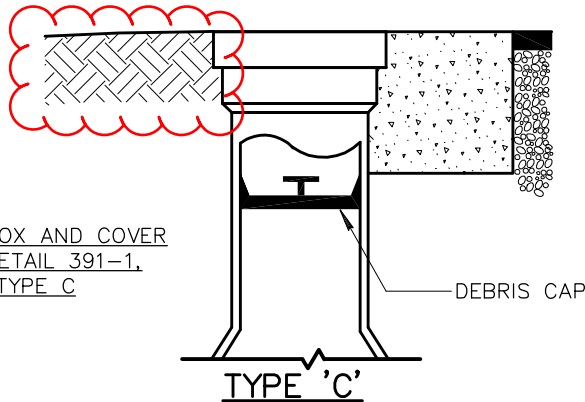
VALVE BOX AND COVER
FOR DETAIL 391-1,
TYPE A



VALVE BOX AND COVER
FOR DETAIL 391-1,
TYPE B



VALVE BOX AND COVER
FOR DETAIL 391-1,
TYPE C



DETAIL NO.

392



STANDARD DETAIL
ENGLISH

DEBRIS CAP INSTALLATION

REVISED

01-01-2015

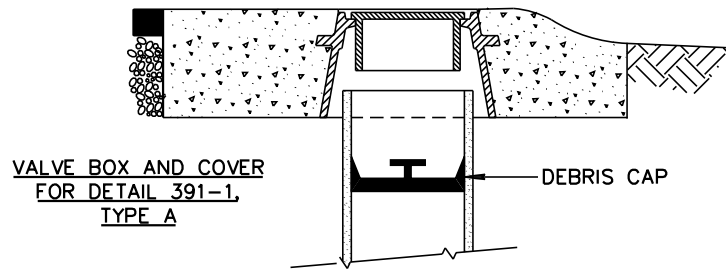
DETAIL NO.

392

Proposed

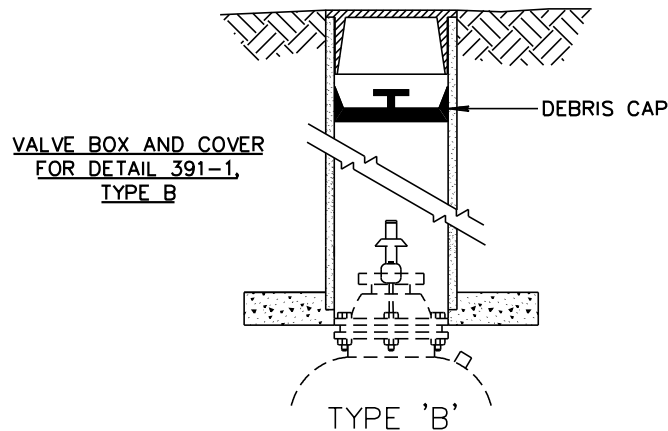
NOTES:

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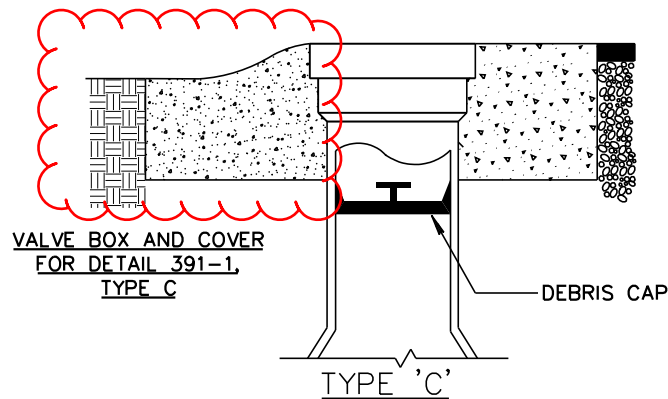
VALVE BOX AND COVER
FOR DETAIL 391-1,
TYPE A

TYPE 'A'



VALVE BOX AND COVER
FOR DETAIL 391-1,
TYPE B

TYPE 'B'



VALVE BOX AND COVER
FOR DETAIL 391-1,
TYPE C

TYPE 'C'

DETAIL NO.

392



STANDARD DETAIL
ENGLISH

DEBRIS CAP INSTALLATION

REVISED

01-01-2022

DETAIL NO.

392

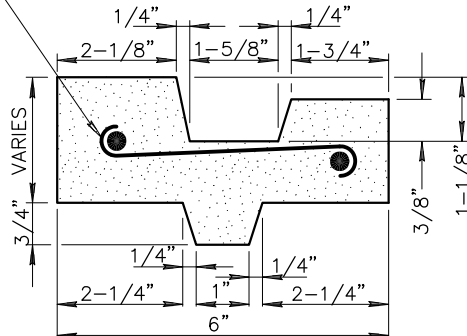
Example

NOTES (TYPE 'A'):

1. CONTRACTORS SHALL ADJUST ALL MANHOLE RINGS AND COVERS, INCLUDING MANHOLES OUTSIDE OF THE PAVEMENT.
2. ADJUSTMENT SHALL BE CONSTRUCTED PER MAG SECTION 345.
3. MANHOLE COATINGS PER SECTION 626.
4. GROUT SHALL BE USED BETWEEN FRAME AND ADJUSTING RING TO ACHIEVE WATER TIGHTNESS.

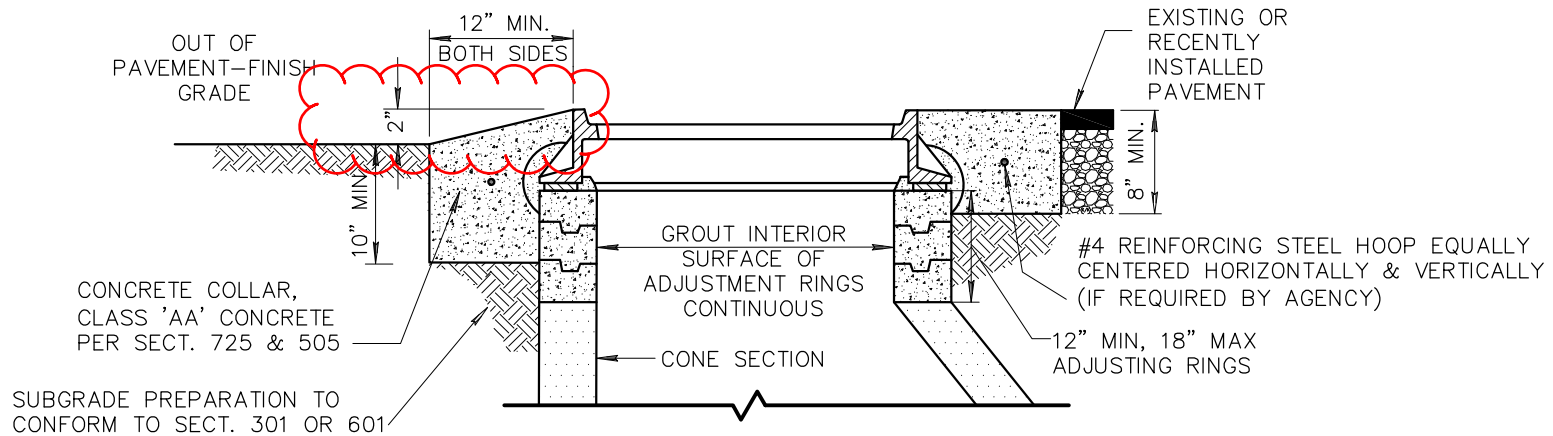
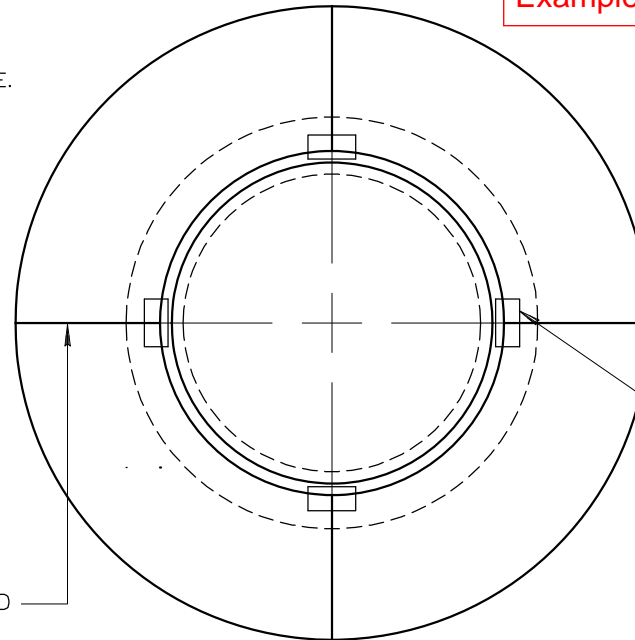
SPACER TYPE	REQUIRED THICKNESS
BRICK	GREATER THAN 2"
4"x2" STEEL SPACER	1/2" TO 2"
GROUT	LESS THAN 1/2"

(2) NO.2 HOOPS FOR 4"
RING TIED WITH NO. 4 A.S.& W. GAUGE WIRE.
6" & 8" RING REQUIRE (4) NO. 2 HOOPS.



ADJUSTING RING DETAIL

MEDIUM BROOM
FINISH WITH
RADIALLY SCORED
MARKS (4 MIN.)



TYPE 'A' CONCRETE RINGS

DETAIL NO.

422-1



STANDARD DETAIL
ENGLISH

MANHOLE FRAME
AND COVER ADJUSTMENT

REVISED

01-01-2022

DETAIL NO.

422-1